

Air Handling Unit

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The Air Handling Unit (AHU) is a centralized HVAC system designed to regulate, filter, and circulate air for maintaining optimal indoor air quality and thermal comfort. It efficiently performs air filtration, cooling, heating, humidity control, and fresh air circulation, making it suitable for commercial, industrial, healthcare, and cleanroom environments.



Features:

- ▶ High-efficiency air filtration.
- ▶ Cooling & heating control.
- ▶ Low-noise operation.
- ▶ Energy-efficient fans.
- ▶ Insulated double-skin casing.
- ▶ Smart VFD control system.
- ▶ Easy maintenance access.
- ▶ Durable & safe construction.



Applications:

- ▶ Commercial buildings, offices, malls, and hotels.
- ▶ Hospitals and healthcare facilities.
- ▶ Pharmaceutical and cleanroom environments.
- ▶ Industrial manufacturing plants.
- ▶ Airports and public infrastructure projects.
- ▶ Data centers and critical facilities.

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Technical specs:

Parameter	Specification
Air Flow Capacity	750 CFM
Static Pressure	125 mm H ₂ O
Overall Dimensions	1700 × 825 × 825 mm
Cooling Capacity	As per coil design
Heating Capacity	Electric / Hot Water / Steam
Filtration Class	G4 + F7/F9 / Optional HEPA
HEPA Filter Efficiency	99.97% @ 0.3 μm
Pre-filter Efficiency	≥ 90% @ 25 μm
Noise Level	≤ 70 dB
Power Supply	380–415V AC, 3 Phase, 50 Hz
Fan Type	Centrifugal / Plug / EC Fan
Fan Efficiency	≥ 65%
Motor Protection	Ip66
Motor Power	1.5 HP
Fan Speed	3309 RPM
Operating Temperature	-30°C to 85°C
Casing Construction	Double skin insulated panels
Insulation	PU / PUF / Rockwool (25–50 mm)